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APPLICA	APPLICATION NO.		G DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/7	09/704,299 11/01/2000		1/2000	John R. Bianchi	RTI-106	2390
	75	590	05/03/2005		EXAMINER	
DONALD J. POCHOPIEN 500 WEST MADISON STREET					PHILOGENE, PEDRO	
	FLOOR	DISON SI	REET	ART UNIT	PAPER NUMBER	
CH	ICAGO, IL	60661			3732	V

DATE MAILED: 05/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Annlication No.	Applicant(s)
	Application No.	Applicant(s)
	09/704,299	BIANCHI ET AL.
Office Action Summary	Examiner	Art Unit
	Pedro Philogene	3732
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI - Extensions of time may be available under the provisions of 37 C. after SIX (6) MONTHS from the mailing date of this communicatio - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a on. a reply within the statutory minimum of this period will apply and will expire SIX (6) MON statute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on	<u>06 April 2005</u> .	
·— ·	This action is non-final.	
3) Since this application is in condition for al	lowance except for formal mat	ters, prosecution as to the merits is
closed in accordance with the practice un	der <i>Ex parte Quayl</i> e, 1935 C.[D. 11, 453 O.G. 213.
Disposition of Claims		
4) Claim(s) <u>11-14,16-20,22,23,25 and 27-33</u>	is/are pending in the applicati	on.
4a) Of the above claim(s) is/are wit	hdrawn from consideration.	
5) Claim(s) is/are allowed.		
6) Claim(s) <u>11-14,16-20,22,23,25 and 27-33</u>	l is/are rejected.	
7) Claim(s) is/are objected to.	and/or alaction requirement	
8) Claim(s) are subject to restriction a	and/or election requirement.	
Application Papers		
9) The specification is objected to by the Exa	aminer.	
10) The drawing(s) filed on is/are: a)		
Applicant may not request that any objection t		
Replacement drawing sheet(s) including the c		
11) The oath or declaration is objected to by t	ne Examiner. Note the attache	ed Office Action of John P 10-132.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for fo	reign priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:		
1. Certified copies of the priority docu		
2. Certified copies of the priority docu		
3. Copies of the certified copies of the		n received in this National Stage
application from the International B		t received
* See the attached detailed Office action for	a list of the certified copies no	r received.
Attachment(s)	∧ □	Summary (PTO-413)
1) Notice of References Cited (PTO-892)	4) interview	Summary (F 1 0-4 13)

Paper No(s)/Mail Date _____.

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PTOL-326 (Rev. 1-04)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

Paper No(s)/Mail Date. _____.

6) ___ Other: ____.

5) Notice of Informal Patent Application (PTO-152)

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Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/6/05 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 11-14, 16-20, 22-23,25,27-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson et al. (6,200,347) in view of Pavlov et al. (5,906,616).

With respect to claims 11, 20, 27, Anderson et al discloses an assembled implant, as best seen in the figures, for implantation between adjacent vertebrae in the spine of a patient comprising two or more sections of cortical bone; as best seen in FIGS.1-10, that are joined together in tandem by a pin (7,19,31) to form an implant that is longer than it is wide, as best seen in FI.10, the pins interconnecting the section to form an elongated body from about 5mm to about 25 mm in length wherein all longitudinal surface are continuously tapered and threaded (since Anderson et al

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disclose in column 6, lines 50-52, column 7, lines 1-13, surfaces including continuous protrusions) the elongated body also having first end having a first diameter for initially engaging adjacent vertebrae and an opposing second end having a second diameter that is larger than the first diameter, (since Anderson et al disclose in column 6, lines 39-40 that the bone graft is a tapered cylinder); as set forth in column 8, lines as set forth in column 23, lines 1-67, column 31, lines 1-22 and as best seen in the figures.

Although Anderson et al taught of continuous protrusions as texture on the implant; it is noted that Anderson did not teach of threads on the surface of the implant, and a slot in the second end for engaging a driving device; as claimed by applicant.

However, in a similar art, Pavlov et al. evidences the use of threads on the surface of conically shaped implant to secure the implant in the vertebrae and a slot at the second end to drive the implant.

Therefore, given the teaching of Pavlov et al, it would have been obvious to one having ordinary skill in the art at the time the invention was made to replace the continuous protrusions with the threads pattern of Pavlov et al. and incorporating a slot as taught by Pavlov to secure the implant in the vertebrae and a slot at the second end to drive the implant.

As to the language, the pins suited for conveying torsional load, the pins of Anderson et al are suited for conveying torsional load.

With respect to claims 12-14, 16-19, 22, 25, 28-33, the above combination of references teaches all the limitations, as set forth in column 6, lines 37-67, column 7, lines 1-16, column 8, lines 29-35, column 23, lines 1-67, column 31, lines 1-22 and as

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best seen in the figures of Anderson et al., and as best seen in the figures of Pavlov et al.

With respect to claim 23, the method steps, as set forth, would have been obviously carried out in the operation of the device, as set forth above.

Response to Amendment

Applicant's arguments filed 4/6/05 have been fully considered but they are not persuasive. Applicant's arguments that the sections of cortical bones of Anderson et al are not in tandem; however, Anderson et al stated in column 8, lines 34-35, the dimension of the graft is the length, as best seen in FIG.10.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

6,558,423	5-2003	Michelson
6,494,883	12-2002	Ferree
5.814.084	9-1998	Grivas et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro Philogene whose telephone number is (571) 272-4716. The examiner can normally be reached on Monday to Friday 6:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin P Shaver can be reached on (571) 272-4720. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Pedro Philogene April 28, 2005

PEDRO PHILOGENE PRIMARY EXAMINER